



Title: FRET PROTEASE ASSAYS FOR BOTULINUM SEROTYPE A/E TOXINS

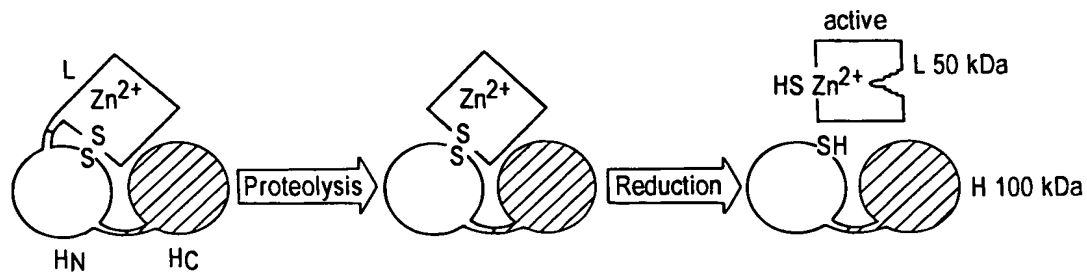
Steward, Lance E., et al.

Serial No. 09/942,024

Docket No. 066872-0017

Customer Number 41552

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**FIG. 1**

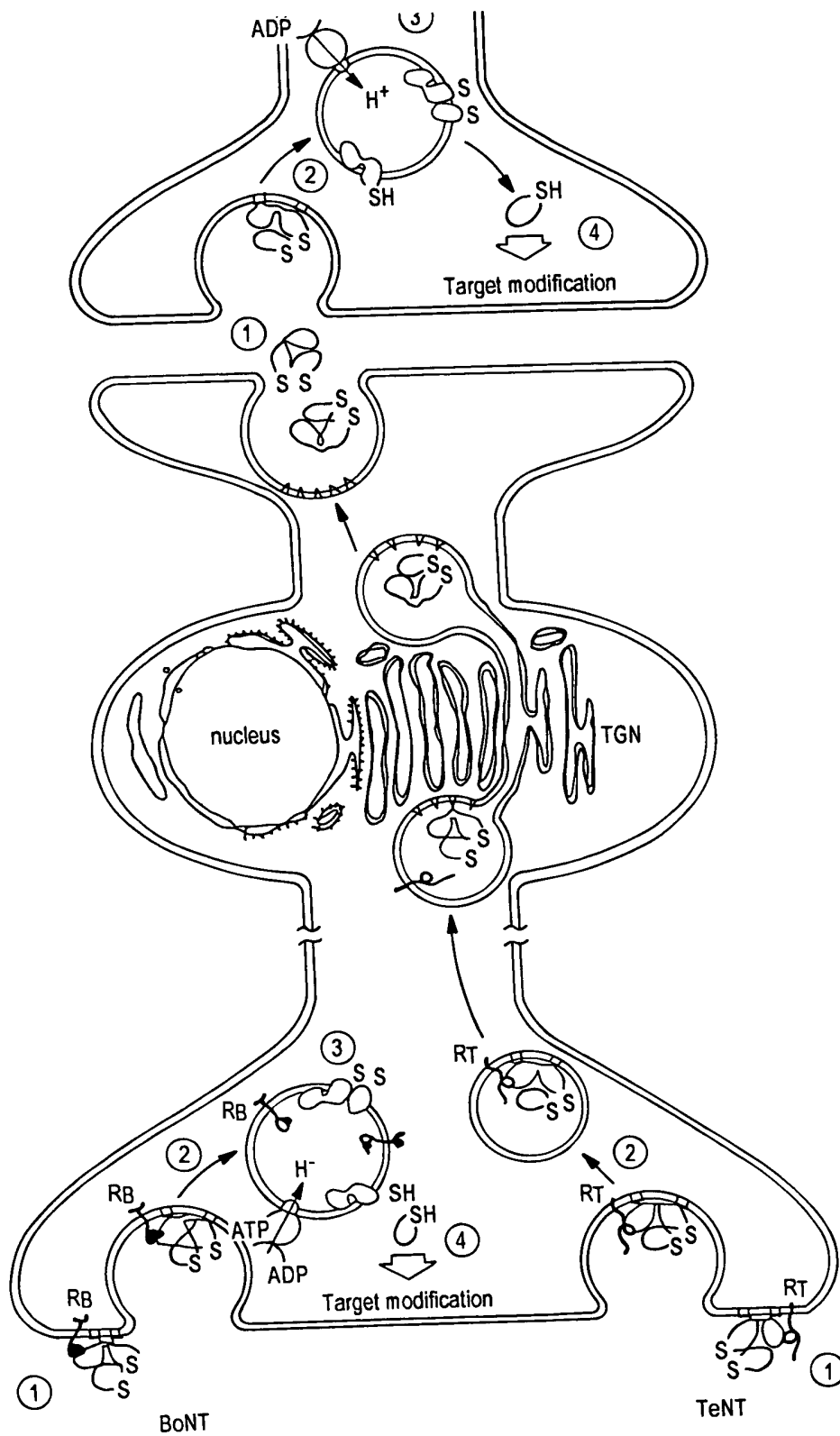
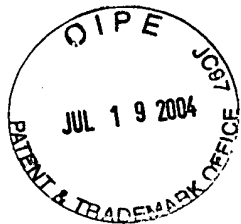


FIG. 2



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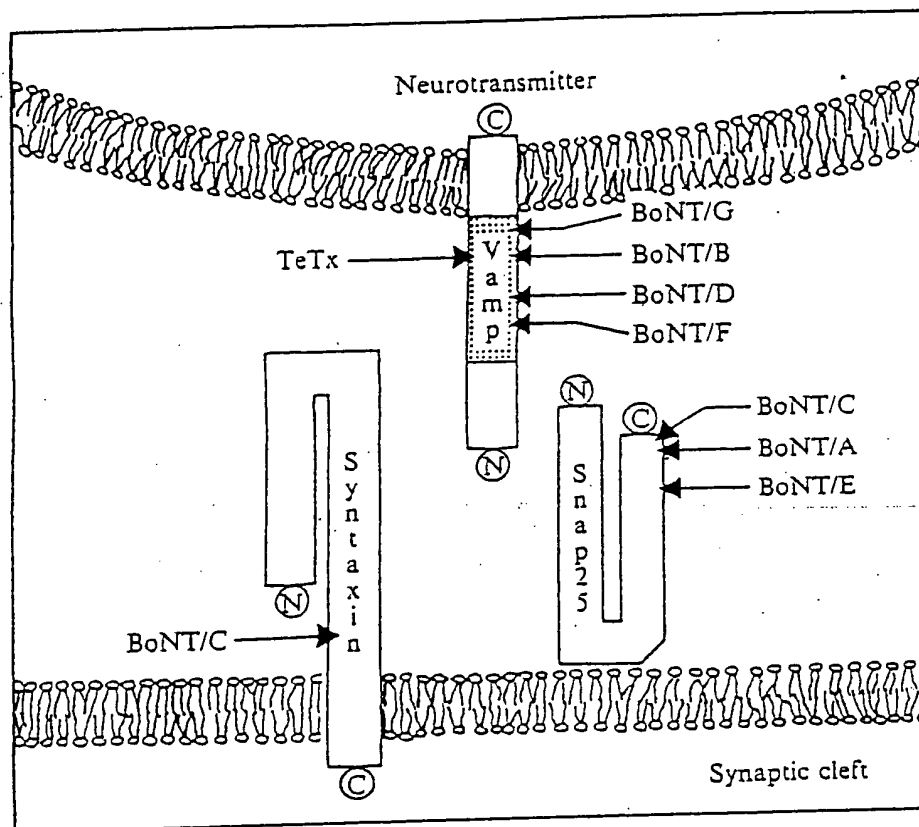


FIGURE 3

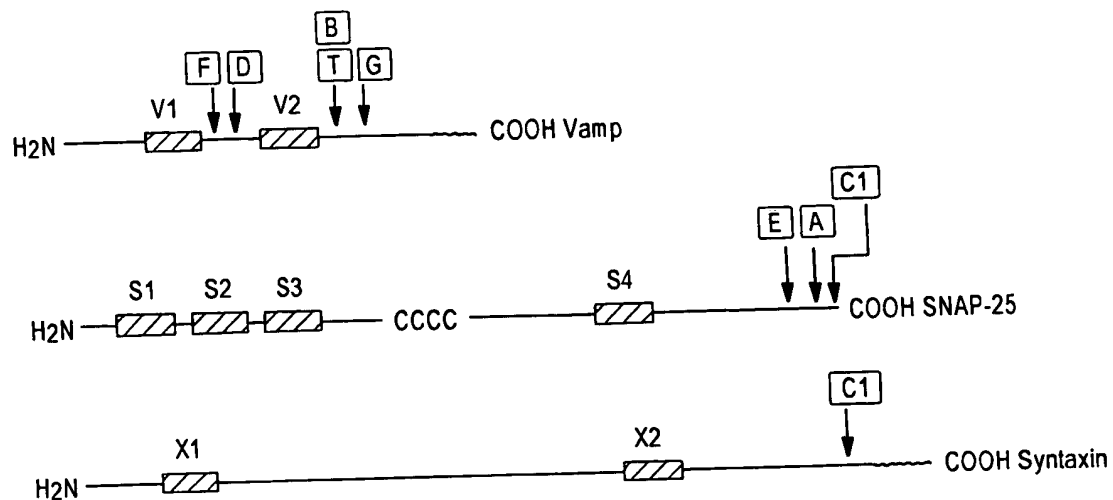


FIG. 4A

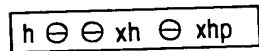


FIG. 4B

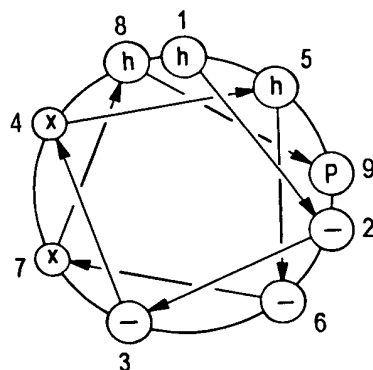
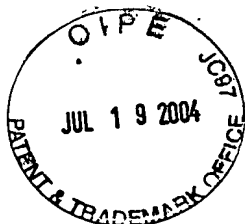


FIG. 4C



|     |                    |       |   |     |
|-----|--------------------|-------|---|-----|
| 1   | SNAP-25 Human      | (1)   | MAEDADMRNELEEMQRRADQLADESLESTRRLQLVEESKDAGIRTLVLMDEQGEQLERIEEGMDQIN       | 75  |
|     | SNAP-25 Mouse      | (1)   | MAEDADMRNELEEMQRRADQLADESLESTRRLQLVEESKDAGIRTLVLMDEQGEQLERIEEGMDQIN       |     |
|     | SNAP-25 Drosophila | (1)   | MPADPSEVAPOVPKTELEELQNAQGVADLESLESTRRLQLVEESKDAGIRTLVLMDEQGEQLERIEEGMDQIN |     |
|     | SNAP-25 Goldfish   | (1)   | MAEDADMRNELTDMQRRADQLADESLESTRRLQLVEESKDAGIRTLVLMDEQGEQLERIEEGMDQIN       |     |
|     | SNAP-25 Sea Urchin | (1)   | MEDQNVNVRSELEELQVQSNMQIDESLESTRRLQLVEESKDAGIRTLVLMDEQGEQLERIEEGMDQIN      |     |
|     | SNAP-25 Chicken    | (1)   | MAEDADMRNELEEMQRRADQLADESLESTRRLQLVEESKDAGIRTLVLMDEQGEQLERIEEGMDQIN       |     |
| 76  | SNAP-25 Human      | (69)  | KDMKEAEKNTLDLGKFCGLCVCPCN--KLKSSDAKKKAWGNNDGVVAS-QPARVVDEREQMAISGGFIRRVTN | 150 |
|     | SNAP-25 Mouse      | (69)  | KDMKEAEKNTLDLGKFCGLCVCPCN--KLKSSDAKKKAWGNNDGVVAS-QPARVVDEREQMAISGGFIRRVTN |     |
|     | SNAP-25 Drosophila | (76)  | ADMKEAEKNTSGWEKCCGFCVLPCKNSQSFEDDG---TWKGNDDGKVNNQPARVVDEREQMAISGGFIRRVTN |     |
|     | SNAP-25 Goldfish   | (69)  | KDMKEAEKNTLDLGKFCGLCVCPCN--KLKGG---GQSWGNNDGVVAS-QPARVVDEREQMAISGGFIRRVTN |     |
|     | SNAP-25 Sea Urchin | (71)  | TMKEAEKNTLDLGKFCGLCVCPCN--KLKGG---GQSWGNNDGVVAS-QPARVVDEREQMAISGGFIRRVTN  |     |
|     | SNAP-25 Chicken    | (69)  | QDMKEAEKNTLDLGKFCGLCVCPCN--KLKSSDAKKKAWGNNDGVVAS-QPARVVDEREQMAISGGFIRRVTN |     |
| 151 | SNAP-25 Human      | (140) | DARENEMDENLEQVSGIIGNLRHMLDMGNEIDTQNROIDRINMEKADSNKTRIDEAN--QRAFKMLGSG--   | 225 |
|     | SNAP-25 Mouse      | (140) | DARENEMDENLEQVSGIIGNLRHMLDMGNEIDTQNROIDRINMEKADSNKTRIDEAN--QRAFKMLGSG--   |     |
|     | SNAP-25 Drosophila | (148) | DAREDEMENLEQVNTMIGNLRHMLDMGSELENQNRQIDRINRKESNEARJAVAN--QRAHQILK--        |     |
|     | SNAP-25 Goldfish   | (137) | DARENEMDENLEQVSGIIGNLRHMLDMGNEIDTQNROIDRINMDADSNKTRIDEAN--QRAFKMLGSG--    |     |
|     | SNAP-25 Sea Urchin | (146) | DAREDEMENLEQVSSHIGNLRHMLDMQSEICAQNSQVGRITSKAESNEGRINSAD--KRAKNILRNK--     |     |
|     | SNAP-25 Chicken    | (140) | DARENEMDENLEQVSGIIGNLRHMLDMGNEIDTQNROIDRINMEKADSNKTRIDEAN--QRAFKMLGSG--   |     |
| 226 | SNAP-25 Human      | (207) | -----   | 260 |
|     | SNAP-25 Mouse      | (207) | -----   |     |
|     | SNAP-25 Drosophila | (213) | -----   |     |
|     | SNAP-25 Goldfish   | (204) | -----   |     |
|     | SNAP-25 Urchin     | (213) | -----   |     |
|     | SNAP-25 Chicken    | (215) | LMLSQRAVPSCFYHGIYLLGLHTCTYQPHCKCPV  |     |

FIG. 5

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**FIG. 7**